

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicants : Konrad GROB, et al :
Assignee : Thermoquest Italia, S.p.A. :
USSN : To be assigned :
Filed : Concurrently herewith :
For : METHOD AND DEVICE FOR :
VAPORIZATION INJECTION :
Art Unit: : To be assigned :
Examiner : To be assigned :
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BOX PATENTS

Assistant Commissioner for Patents
US Patent & Trademark Office
Washington DC 20231

Dear Sir:

PRELIMINARY AMENDMENT

Prior to examination on the merits, please amend the above referenced Patent

Application as follows:

MAILING CERTIFICATE

I hereby certify that this correspondence is being deposited with the United States Postal Service as **EXPRESS MAIL LABEL EL781391285US** in an envelope addressed to: BOX PATENT APPLICATIONS, NO FEE - Assistant Commissioner for Patents, Washington, DC 20231 on the date indicated below:

Lourdes Ramos

Name

Lourdes Ramos

Signature

July 3, 2001

Date

IN THE CLAIMS:

Pursuant to 37 CFR § 1.121(c)(1)(i), herein below are a set of clean claims containing all revisions made herein.

Amend claims 4-8, 10-11, 13-14 and 16 as follows:

4. A device according claim 1, characterized in that the internal channel of said needle has a diameter of less than 0.13 mm.
5. A device according to claim 1, in which the upper portion of said vaporization chamber is cooled or unheated.
6. A device according to claim 1, in which the external wall of said needle is covered by a thermal insulating material.
7. A device according to claim 1, in which said needle is completely formed in a thermal insulating polymer.
8. A device according to claim 1, in which the complete length of said vaporization chamber is greater than 10 cm.
10. A device according to claim 1, in which said vaporization chamber is coiled.

11. A device according to claim 1, in which said vaporization chamber is formed in metal.

13. A device according to claim 1, in which a conventional septum or a Merlin valve are able to be alternately mounted on the injector head.

14. A device according to claim 1, characterized in that said vaporization chamber has a restriction in its lower part containing said stop and vaporization means.

16. A device according to claim1, characterized in that heating means for the vaporization chamber are provided operating at the vaporization temperature of the sample in correspondence to said restriction, and at a lower temperature in the upper part of the chamber.

REMARKS


Claim	Status	Dependency
1	Unchanged	Independent
2	Unchanged	1
3	Unchanged	1
4	Amended herein	1
5	Amended herein	1
6	Amended herein	1

FILED 09-09-09

Claim	Status	Dependency
7	Amended herein	1
8	Amended herein	1
9	Unchanged	8
10	Amended herein	1
11	Amended herein	1
12	Unchanged	11
13	Amended herein	1
14	Amended herein	1
15	Unchanged	14
16	Amended herein	1
17	Unchanged	Independent
18	Unchanged	17

Claims 4-8, 10-11, 13-14 and 16 have been amended to cancel multiple dependencies.

Respectfully submitted,

By: 

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MARKED-UP VERSION OF AMENDED CLAIMS
PURSUANT TO 37 CFR § 1.121(c)(1)(ii)

Amend claims 4-8, 10-11, 13-14 and 16 as follows:

4. A device according claim 1 [to one of the preceding claims], characterized in that the internal channel of said needle has a diameter of less than 0.13 mm.
5. A device according to claim 1, [3 or 4,] in which the upper portion of said vaporization chamber is cooled or unheated.
6. A device according to [one of the claims 1 to 5] claim 1, in which the external wall of said needle is covered by a thermal insulating material.
7. A device according to [one of the claims 1 to 5] claim 1, in which said needle is completely formed in a thermal insulating polymer.
8. A device according to [one of the claims 1 to 7] claim 1, in which the complete length of said vaporization chamber is greater than 10 cm.
10. A device according to [one of the previous claims] claim 1, in which said vaporization chamber is coiled.

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11. A device according to [one of the previous claims] claim 1, in which said vaporization chamber is formed in metal.

13. A device according to [one of the preceding claims] claim 1, in which a conventional septum or a Merlin valve are able to be alternately mounted on the injector head.

14. A device according to [one or more of the preceding claims] claim 1, characterized in that said vaporization chamber has a restriction in its lower part containing said stop and vaporization means.

16. A device according to claim [13 or 15] 1, characterized in that heating means for the vaporization chamber are provided operating at the vaporization temperature of the sample in correspondence to said restriction, and at a lower temperature in the upper part of the chamber.